

REMARKS
Election/Restrictions

5 In office action mailed at January 10,2007, applicant is required to elect one of the following species under 35 U.S.C 121:

- A wherein the first, the second and the third color elements respectively belong to red, green and blue color components (claim 62).
- 10 B wherein the first, the second and the third color elements respectively belong to green, blue and red color components (claim 63).
- C wherein the first, the second and the third color elements respectively belong to green, blue and red color components (claim 64).

15

From above species written in the dependent claims, applicant firstly decides to elect the specie A (claim 62) for prosecution on the merits, and temporarily withdraw the claim 63 and claim 64. And applicant would like to reserve the right to be entitled the withdrawal claims if finally a generic claim is found to be allowable in this application.

20

In addition to elect one species for prosecution on the merits, applicant would like to describe that claim 54 is a generic claim read on each of embodiment disclosed in the specification. For clearly realize, the detail description is introduced in following paragraph.

25

At first, regarding to claim 54 and first embodiment (Please refer to paragraph [0036] and Fig .4), the steps of

“looking up a first color element of the input color in a first lookup table to generate

a first converted color element; wherein the first color element and the first converted color element belong to the same color component” could be referred to g1 look-up table 34;

5 “looking up a second color element of the input color in a second lookup table to generate a second converted color element; wherein the second color element and the second converted color element belong to the same color component” could be referred to b1 look-up table 36;

10 “converting a third color element to generate a third converted color element by gamma correction circuit; wherein the third color element and the third converted color element belong to the same color component” could be referred to Gamma correction circuit 32; and

“wherein one of the color elements of output color is dependent to the first, second and third converted color elements” could be referred to R’ in the first embodiment. And the R’ in the first embodiment is corresponding to the formula $(R' = r1 * R + g1 * G + b1 * B)$, wherein $g1 * G$ is generated by look up table 34, $b1 * B$ is generated by look up
15 table 36, and $r1 * R$ is generated by Gamma correction circuit 32. Therefore, It is clear that the output color element R’ of output color in the first embodiment is dependent to these three converted color elements which is respectively generated by look up table and Gamma correction circuit. On the other hand, it is similar to G’ ($G' = r2 * R + g2 * G + b2 * B$), and B’ ($B' = r3 * R + g3 * G + b3 * B$) in the first embodiment to being performed by
20 look up table and Gamma correction circuit.

Second, regarding to claim 54 and second embodiment (Please refer to paragraph [0037] and Fig .5), the steps of

25 “looking up a first color element of the input color in a first lookup table to generate a first converted color element; wherein the first color element and the first converted color element belong to the same color component” could be referred to g1 look-up table 52;

“looking up a second color element of the input color in a second lookup table to generate a second converted color element; wherein the second color element and the second converted color element belong to the same color component” could be referred to b1 look-up table 54;

5 “converting a third color element to generate a third converted color element by gamma correction circuit; wherein the third color element and the third converted color element belong to the same color component” could be referred to Gamma correction circuit 70; and

10 “wherein one of the color elements of output color is dependent to the first, second and third converted color elements” could be referred to R' in the second embodiment. And the R' in the second embodiment is corresponding to the formula $R' = (R + g1 * G + b1 * B) * r1$, wherein $g1 * G$ is generated by look up table 52, $b1 * B$ is generated by look up table 54, and $(R + g1 * G + b1 * B) * r1$ is generated by Gamma correction circuit 70. Therefore, it is clear that the output color element R' of output color in the second
15 embodiment is dependent to these three converted color element which is respectively generated by look up table and Gamma correction circuit. On the other hand, it is similar to G' [$G' = (r1 * R + G + b2 * B) * g2$], and B' [$B' = (r1 * R + g3 * G + B) * b3$] in the second embodiment to being performed by look up table and Gamma correction circuit.

20 Third, regarding third embodiment (Please refer to paragraph [0038] and Fig .6) in specification, which describes a color LCD color conversion apparatus 80 comprising A/D converter 82, color conversion apparatus 76, D/A converter 90 and LCD display 94. As mentioned in paragraph [0038], the color conversion apparatus 76 can be implemented by first embodiment or second embodiment; therefore the relevant introduction about
25 claim 54 and color conversion apparatus 76 could be referred to the above description, similar description about claim 54 and color conversion apparatus 76 is hereby omitted.

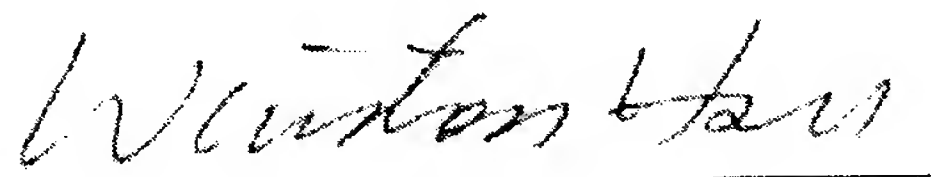
In view of the foregoing, it is realized that claim 54 is a generic claim read on each

of embodiment disclosed in this application. On the other hand, applicant submits that there is no suggestion of incorporating look up table with Gamma correction circuit like claim 54 as a whole to perform a RGB to RGB color conversion or any implication of combining look up table with Gamma correction circuit to perform a RGB to RGB color conversion in the cited prior arts. Therefore, applicant herein respectfully requests the allowance of the claim54 and other claims incorporated to claim 54 in application.

Conclusions

In response, applicant complies with the requirement of examiner to elect one species for prosecution on the merits. And the species A is finally being decided. On the other hands, in order to clear realize the claim 54 is a generic claim, applicant also makes a description about claim 54, which is read on each of embodiment in the specification. And finally, applicant herein respectfully requests the allowance of these claims pending in application.

Sincerely yours,



Date: 02/08/2007

Winston Hsu, Patent Agent No. 41,526
P.O. BOX 506, Merrifield, VA 22116, U.S.A.
Voice Mail: 302-729-1562
Facsimile: 806-498-6673
e-mail : winstonhsu@naipo.com

Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 13 hours behind the Taiwan time, i.e. 9 AM in D.C. = 10 PM in Taiwan.)